

1. Record Nr.	UNINA9910483061303321
Titolo	Biofilm-mediated diseases : causes and controls // Rina Rani Ray, Moupriya Nag, Dibyajit Lahiri, editors
Pubbl/distr/stampa	Gateway East, Singapore : , : Springer, , [2021] ©2021
ISBN	981-16-0745-1
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XI, 284 p. 42 illus., 35 illus. in color.)
Disciplina	616.01
Soggetti	Medical microbiology Biofilms Microbiologia mèdica Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1 Introduction to Bacteria and Acute Infections -- 2 Quorum sensing -- 3 Bacteria and Biofilms as Natural Inhabitants of our Body -- 4 Biofilms and Acute and Chronic Infections -- 5 Bacterial and Biofilms in Chronic Infections and Nosocomial Diseases -- 6 Immune Response to Biofilm -- 7 Biofilm in Medical Appliances -- 8 Biofilm and Antimicrobial Resistance -- 9 Inhibition of Biofilm Formation -- 10 Novel and Future Treatment Strategies for Biofilm Associated Infections -- 11 Biofilm- the Unknown Armour in the Arsenal of Bacteria: A Case Study.
Sommario/riassunto	This book reviews the current concepts in biofilm formation and its implications in human health and disease. The initial chapters introduce the mechanisms of biofilm formation and its composition. Subsequently, the chapters discuss the role of biofilm in acute and chronic infections. It also explores the pivotal role of both innate and adaptive immunity on the course of biofilm infection. In addition, the book elucidates the bacterial biofilm formation on implantable devices and the current approaches to its treatment and prevention. It analyzes the possible relationship between antimicrobial resistance and biofilm formation. Finally, the book also summarizes the current state-of-the-art therapeutic approaches for preventing and treating biofilms. This

book is a useful resource for researchers in the field of microbiology,
clinical microbiology, and also medical practitioners.
